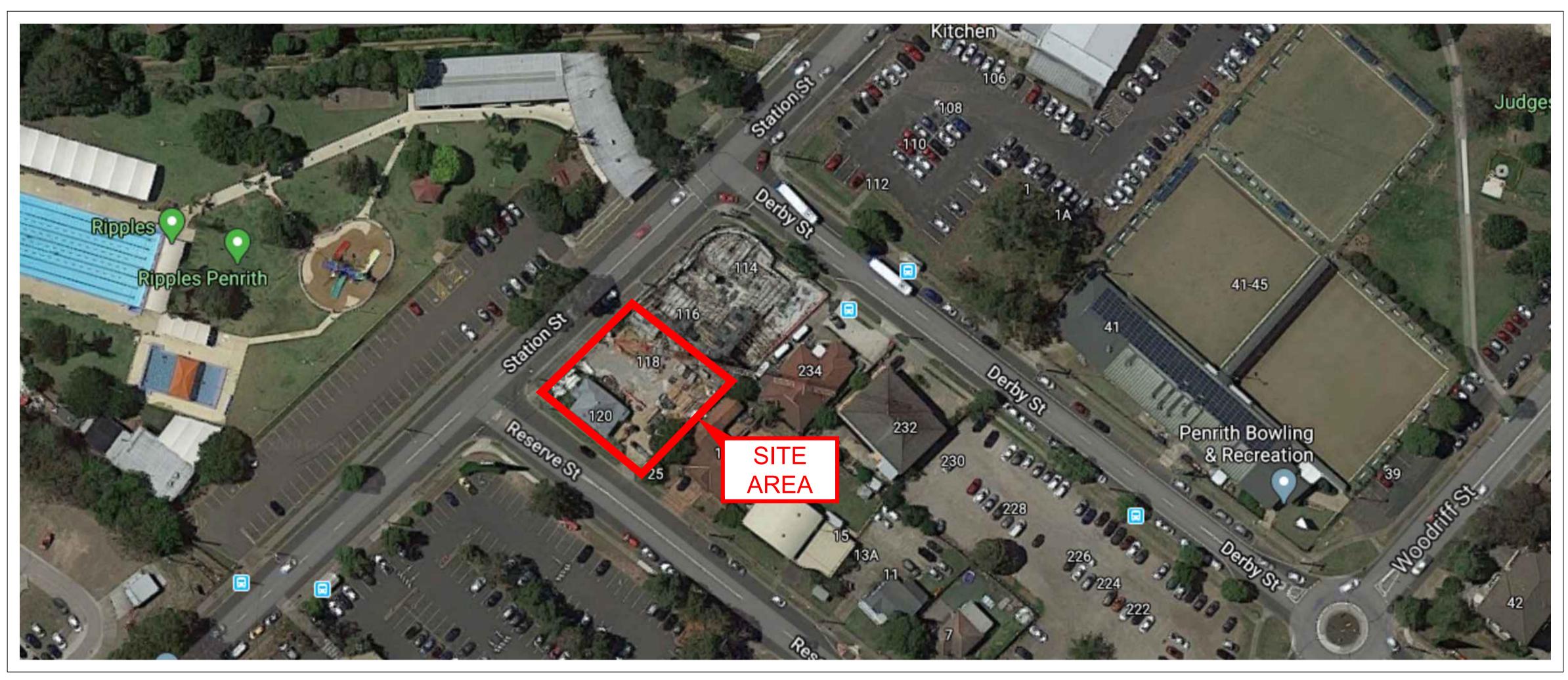
118-120 STATION STREET, PENRITH PROPOSED MIXED USE DEVELOPMENT STORMWATER CONCEPT PLANS



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Issue	Description	Date	Designed	Engineer	Checked	info@ad-s.con.au / www.ad-s.com.au	P
Α	ISSUE FOR DEVELOPMENT APPLICATION	11/09/2020	EHZ	JSF		P: 02 9648 6663 / F: 02 9648 6664	
В	ARCHITECTURAL AMENDMENTS	20/11/2020	EHZ	JSF		11 Egerton Street, Silverwater, NSW 2128	Cou
С	COUNCIL COMMENTS	18/03/2021	AGN	JSF		STUDIO (NSW) PTY LTD	
						ARCHITECTURE DESIGN	M
						Architect	Clie

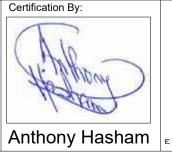
Document Set ID: 9751597 Version: 1, Version Date: 29/09/2021

LOCALITY PLAN N.T.S

	DRAWING INDEX
Drawing No.	DESCRIPTION
000	COVER SHEET PLAN
101	STORMWATER CONCEPT PLAN BASEMENT LEVEL 2 SHEET 1 OF 2
102	STORMWATER CONCEPT PLAN BASEMENT LEVEL 2 SHEET 2 OF 2
103	STORMWATER CONCEPT PLAN BASEMENT LEVEL 1
104	STORMWATER CONCEPT PLAN
105	WSUD CATCHMENT PLAN, MUSIC MODEL, RESULTS & NODE WATER BALANCE
106	RWT & WSUD DETAILS
107	MISCELLANEOUS DETAILS SHEET

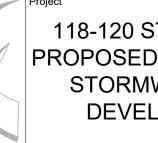
Mr. David Reeve

ouncil Penrith Council

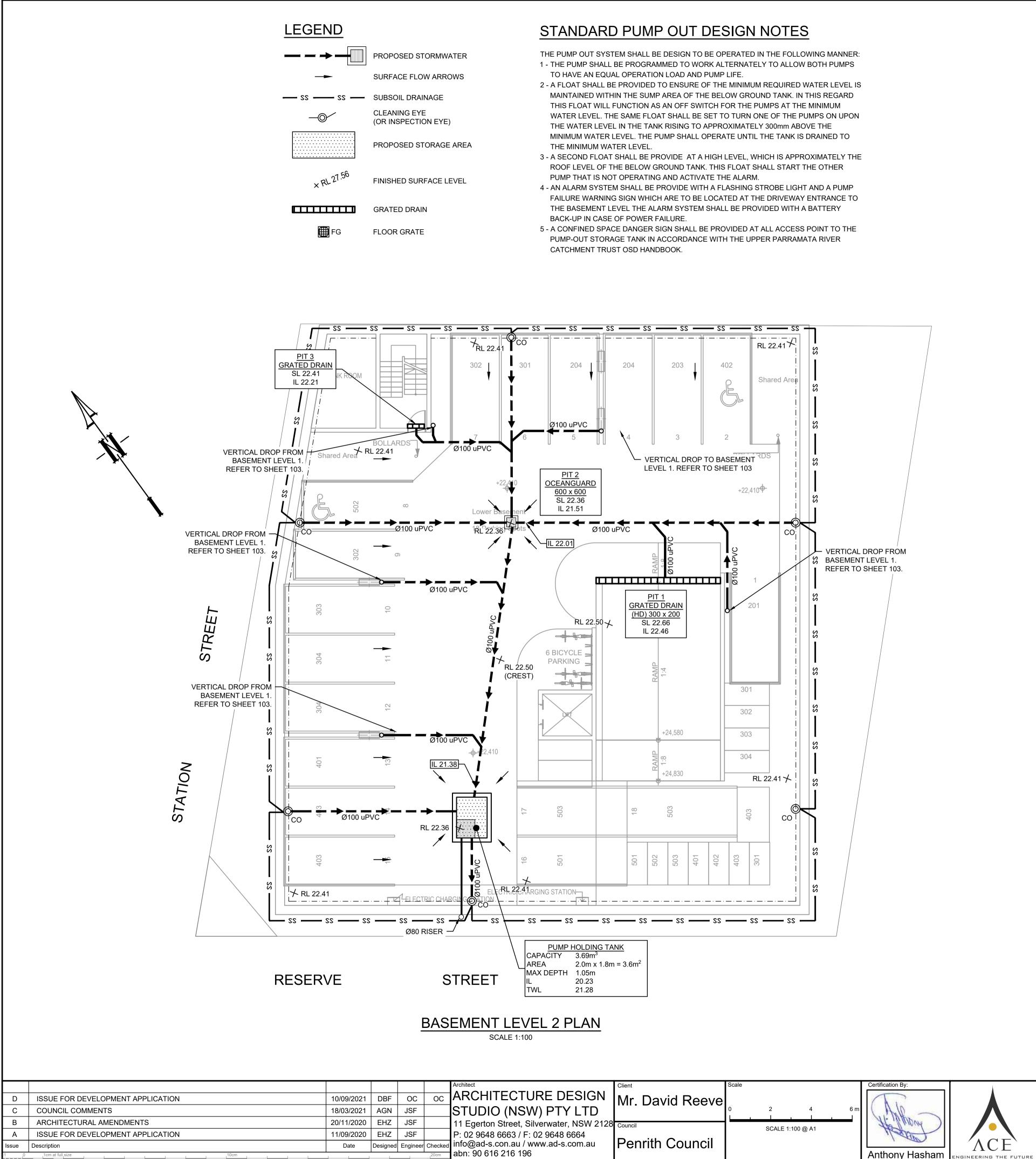




ACE CIVIL STORMWATER SERVICES PTY LTD ABN: 27 644 422 506 SHOP 2-141 CONCORD RD, NORTH STRATHFIELD, NSW 2137 P:(02) 9763 1500 E:info@aceeng.com.a

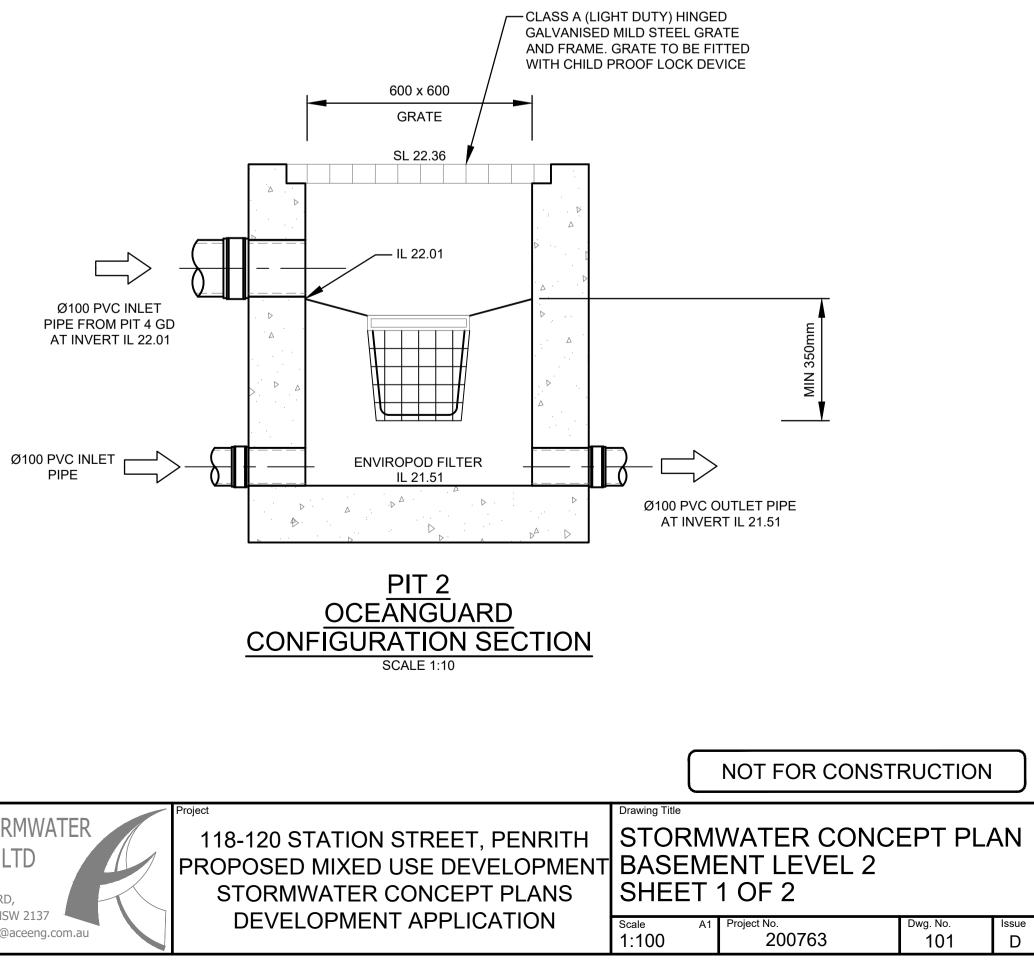


TATION STREET, PENRITH COVER SHEET PLAN	
MIXED USE DEVELOPMENT WATER CONCEPT PLANS	
OPMENT APPLICATIONScaleA1Project No.Dwg. No.N.T.S.200763000	Issue C



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DANGER	
WHEN EXCAVATING WITHIN A	NY
SITE, FOOTPATH AND ROADW	
ALL SERVICES SHALL BE LOCA	
PRIOR TO COMMENCEMENT O THE EXCAVATION WORKS.	F
CONTACT "DIAL BEFORE YOU I	DIGʻ
ON PHONE No. 1100 OR GO TO	T٢
WEB SITE	
"www.1100.com.au"	

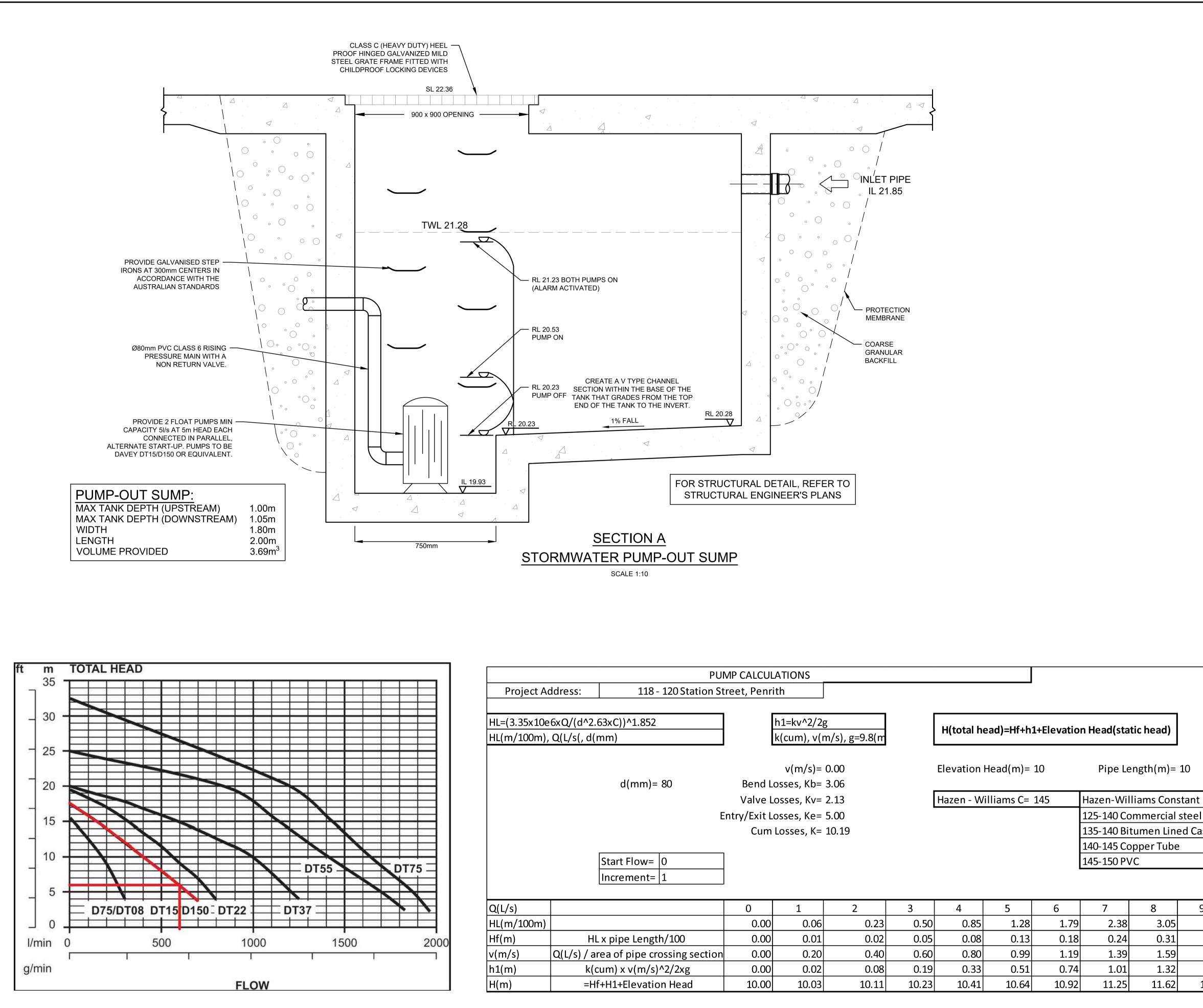
CONFINED SPACE NO ENTRY WITHOUT **CONFINED SPACE** TRAINING



ACE CIVIL STORMWATER SERVICES PTY LTD ABN: 27 644 422 506 SHOP 2-141 CONCORD RD, NORTH STRATHFIELD, NSW 2137 P:(02) 9763 1500 E:info@aceeng.com.au

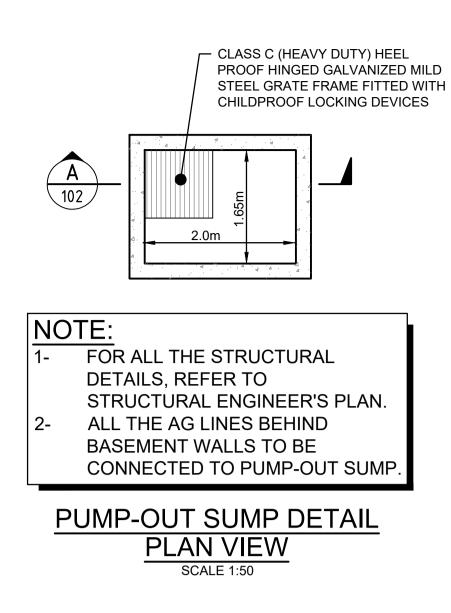






						Architect	Client	Scale		Certification By:			Project	Drawing Title
D	א נ	ISSUE FOR DEVELOPMENT APPLICATION 10/0)/2021	DBF	00 00		Mr. David Reeve	0	200 400 600mm	T		ACE CIVIL STORMWATER	118-120 STATION STREET, PENRIT	H STORMWATER CONCEPT PLAN
С	; <u>c</u>	COUNCIL COMMENTS 18/0	8/2021 A	AGN .	SF	STUDIO (NSW) PTY LTD			SCALE 1:10 @ A1	(Apl -	Λ	SERVICES PTY LTD	PROPOSED MIXED USE DEVELOPME	
В	<u>م ز</u>	ARCHITECTURAL AMENDMENTS 20/1	/2020	EHZ .	SF	11 Egerton Street, Silverwater, NSW 212	Council			Helluput)		ABN: 27 644 422 506	STORMWATER CONCEPT PLANS	
A	<u>، ا</u> د	ISSUE FOR DEVELOPMENT APPLICATION 11/0)/2020 I	EHZ .	SF	P: 02 9648 6663 / F: 02 9648 6664				(all)		SHOP 2-141 CONCORD RD,		
Issue	e Des	10cm	ate De	signed Er	gineer Che	acked info@ad-s.con.au / www.ad-s.com.au	Penrith Council		SCALE 1:50 @ A1	Anthony Hasham	ACE	P:(02) 9763 1500 E:info@aceeng.com.au	DEVELOPMENT APPLICATION	ScaleA1Project No.Dwg. No.IssueAs Shown200763102C
1		10cm				abn: 90 616 216 196			SCALE 1:50 @ A1	Anthony Hasham	ENGINEERING THE FUTUR	P:(02) 9763 1500 E:info@aceeng.com.au		

Document Set ID: 9751597 Version: 1, Version Date: 29/09/2021



PUMP STORAGE VOLUME CALCULATION

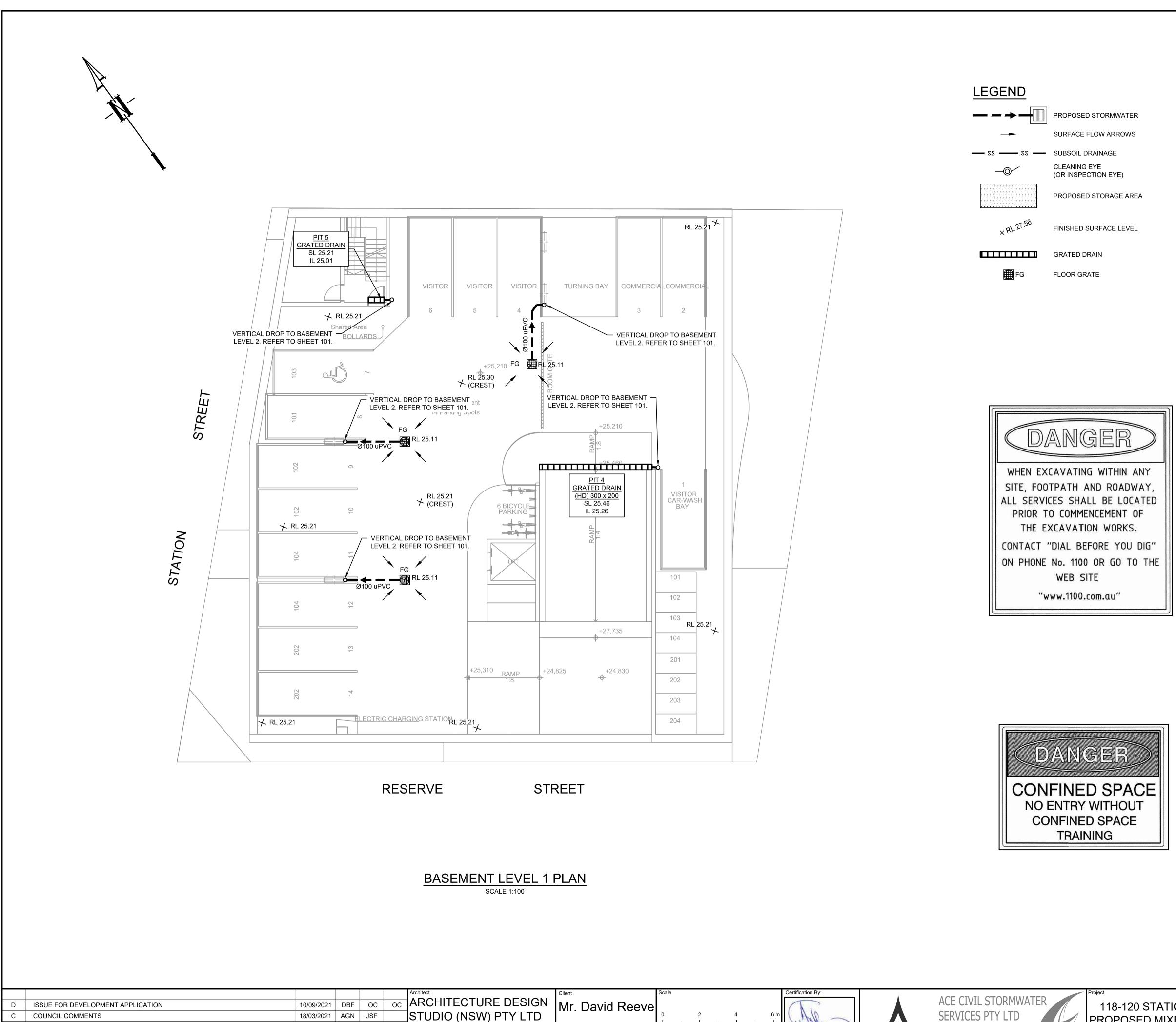
- = 44.4 mm/hour I_{100, 2hrs} = 44.4 mm/nour
 PUMP STORAGE CATCHMENT AREA: A = 31.89m² = 0.00318 ha •
- Q = C x I x A / 360 WHERE C = 1.0 (REFER TO AS3500.3.5.4.6 (a)) = 1.0 x 44.4 x 0.00318 / 360
 - = 0.000393 m³/s = 0.393 L/s
- THEREFORE, THE PUMP HOLDING TANK VOLUME IS: $V = 0.393 \times 2.0 \times 3600$ = 2.83 m³
- TOTAL REQUIRED VOLUME IS 2.83m³

UNDERGROUND PUMP - OUT SUMP STAGED STORAGE CALCULATIONS

DEPTH (mm)	AREA (m²)	CUMULATIVE VOLUME (m ³)
0	3.6	0
100	3.6	0.27
200	3.6	0.63
300	3.6	0.99
400	3.6	1.35
500	3.6	1.71
600	3.6	2.07
700	3.6	2.43
800	3.6	2.79
900	3.6	3.15
1000	3.6	3.51
1050	3.6	3.69

:	
l pipe	
	n pipe
9	10
3.80	4.61
0.38	0.46
1.79	1.99
1.67	2.06
12.05	12.52

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Document Set ID: 9751597 Version: 1, Version Date: 29/09/2021

Issue Description

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ARCHITECTURAL AMENDMENTS

ISSUE FOR DEVELOPMENT APPLICATION

20/11/2020 EHZ JSF

11/09/2020 EHZ JSF

Date Designed Engineer Checked

ARCHITECTURE DESIGN STUDIO (NSW) PTY LTD	Mr. David Reeve	0 2 4 6 m	The
11 Egerton Street, Silverwater, NSW 2128	Council		YE MADOW
P: 02 9648 6663 / F: 02 9648 6664		SCALE 1:100 @ A1	Hedre
	Penrith Council		
abn: 90 616 216 196			Anthony Hasham



SERVICES PTY LTD ABN: 27 644 422 506 SHOP 2-141 CONCORD RD, NORTH STRATHFIELD, NSW 2137 P:(02) 9763 1500 E:info@aceeng.com.au



STANDARD PUMP OUT DESIGN NOTES

THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER: 1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.

- 2 A FLOAT SHALL BE PROVIDED TO ENSURE OF THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.
- 3 A SECOND FLOAT SHALL BE PROVIDE AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
- 4 AN ALARM SYSTEM SHALL BE PROVIDE WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
- 5 A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.



BASEMENT PUMP OUT FAILURE WARNING SIGN

SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT

COLOURS: "WARNING" = RED BORDER AND OTHER LETTERING = BLACK

CONFINED SPACE DANGER SIGN

A) A CONFINED SPACE DANGER SIGN SHALL BE POSITIONED IN A LOCATION AT ALL ACCESS POINTS, SUCH THAT IT IS CLEARLY VISIBLE TO PERSONS PROPOSING TO ENTER THE BELOW GROUND TANK/S CONFINED SPACE.

B) MINIMUM DIMENSIONS OF THE SIGN - 300mm x 450mm (LARGE ENTRIES, SUCH AS DOORS) -250mm x 180mm (SMALL ENTRIES SUCH AS GRATES & MANHOLES)

C) THE SIGN SHALL BE MANUFACTURED FROM COLOUR BONDED ALUMINUM OR POLYPROPYLENE

D) SIGN SHALL BE AFFIXED USING SCREWS AT EACH CORNER OF THE SIGN

COLOURS: "DANGER" & BACKGROUND = WHITE ELLIPTICAL AREA = RED RECTANGLE CONTAINING ELLIPSE = BLACK BORDER AND OTHER LETTERING = BLACK

118-120 STATION STREET, PENRITH PROPOSED MIXED USE DEVELOPMENT BASEMENT LEVEL 1 STORMWATER CONCEPT PLANS DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

STORMWATER CONCEPT PLAN

Scale 1:100

A1 Project No 200763 103

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GENERAL NOTES

- 1. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDERGROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES
- 2. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK.
- 3. THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERS DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL AND LANDSCAPING DRAWINGS. IF THERE EXISTS AND DISCREPANCIES BETWEEN THE DRAWINGS, THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS
- 4. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ONS-SITE DETENTION STORAGE SHALL BE OF A NON-FLOTABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. PINE BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA.
- 5. ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN THE PROPERTY BOUNDARY LIMITS TO DETAILS PREPARED BY THE STRUCTURAL ENGINEER. WALLS FORMING THE ON-SITE DETENTION SYSTEM SHALL BE OF MASONARY/BRICK CONSTRUCTION AND WATER TIGHT.
- 6. ALL SUB-SOIL DRAINAGE SHALL BE A MINIMUM OF 65MM DIA AND SHALL BE PROVIDED WITH A FILTER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT.
- 7. PRIOR TO COMMENCING ANY WORKS, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITE STORMWATER SYSTEM CONNECTS INTO THE COUNCILS KERB/DRAINAGE SYSTEM MATCHED THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- 8. ALL LINES ARE TO BE Ø90 uPVC 1.0% GRADE UNLESS NOTED OTHERWISE. CHARGED LINES TO BE SEWERGRADE & SEALED.
- 9. EXISTING SERVICES LOCATIONS SHOWN INDICATIVE ONLY.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
- 11. ALL PIPES TO HAVE MIN 150mm COVER IF LOCATED WITHIN PROPERTY.
- 12. ALL PITS IN DRIVEWAYS TO BE 450x450 CONCRETE AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450PLASTIC.
- 13. PITS LESS THAN 450 DEEP MAY BE BRICK, PRECAST OR CONCRETE.
- 14. ALL BALCONIES AND ROOFS TO BE DRAINED AND TO HAVE SAFETY OVERFLOWS IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
- 15. ALL EXTERNAL SLABS TO BE WATERPROOFED.
- 16. ALL GRATES TO HAVE CHILD PROOF LOCKS.
- 17. ALL DRAINAGE WORKS TO AVOID TREE ROOTS
- 18. ALL DP'S TO HAVE LEAF GUARDS.
- 19. ALL EXISTING LEVELS TO BE CONFIRMED BY BUILDER PRIOR TO CONSTRUCTION.
- 20. ALL WORK WITHIN COUNCIL RESERVE TO BE INSPECTED BY COUNCIL PRIOR TO CONSTRUCTION.
- 21. COUNCIL'S ISSUED FOOTWAY DESIGN LEVELS TO BE INCORPORATED INTO THE FINISHED LEVELS ONCE ISSUED BY COUNCIL.
- 22. ALL WORK SHALL BE IN ACCORDANCE WITH B.C.A. AND A.S.3500.3.
- 23. REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR LANDSCAPING.
- 24. ALL WALLS FORMING THE DETENTION BASINS SHALL BE CONSTRUCTED WHOLLY WITHIN THE PROPERTY BOUNDARIES OF THE SITE BEING DEVELOPED.
- 25. OSD WARNING SIGN AND SAFETY FENCING SHALL BE PROVIDED TO ABOVE GROUND OSD STORAGE AREA IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.
- 26. ENSURE THAT NON FLOATABLE MULCH IS USED IN DETENTION BASINS, ie, USE DECORATIVE ROCK MULCH OR EQUIVALENT.
- 27. THE OSD BASIN / TANK IS TO BE BUILT TO THE CORRECT LEVELS & SIZE AS PER THIS DESIGN, ANY VARIATIONS ARE TO BE DONE UNDER CONSULTATION FROM OUR OFFICE ONLY. ANY AMENDMENTS WITHOUT OUR APPROVAL WOULD RESULT IN ADDITIONAL FEES FOR REDESIGN AT OC STAGE OR IF A SOLUTION CANNOT BE FOUND, RECONSTRUCTION IS REQUIRED UNDER THE CONTRACTOR'S EXPENSES
- 28. ALL PIPES IN BALCONIES TO BE Ø65 uPVC IN CONCRETE SLAB. CONTRACTOR TO PROVIDE A BREAK / OPEN VOID IN RAIL / BALLUSTRADE FOR STORMWATER EMERGENCY OVERFLOW. ALL ENCLOSED AREAS / PLANTER BOXES TO BE FITTED WITH FLOOR WASTES & DRAINED TO OSD. DOWNPIPES TO BE CHECKED BY ARCHITECT & PLUMBER PRIOR TO CONSTRUCTION.

LEGEND

	PROPOSED STORMWATER BYPASSING OSD
→	PROPOSED STORMWATER DRAINING TO RWT
	PROPOSED STORMWATER DRAINING TO OSD
———— E×S ———	EXISTING SEWER MAIN (FROM RECORDS)
——— E×W ———	EXISTING WATER (FROM RECORDS)
——————————————————————————————————————	EXISTING POWER (FROM RECORDS)
——————————————————————————————————————	EXISTING GAS (FROM RECORDS)
——————————————————————————————————————	EXISTING TELSTRA (FROM RECORDS)
-	SURFACE FLOW ARROWS
X RL 47.00	DESIGN SURFACE LEVEL
NS 26.45 +	EXISTING SURFACE LEVEL
	PROPOSED RAINWATER TANK STORAGE
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PROPOSED WSUD AREA
c	Ø65 RISER WITH NON-RETURN VALVE

RWT NOTE: RAINWATER RE-USE AS SPECIFIED BY BASIX CERTIFICATE TO OUTDOOR TAPS AND/OR TOILETS AND/OR WASHING MACHINE.

	PIPES NOTE:
l	Ø65 PVC @ MIN 1.0%
l	Ø90 PVC @ MIN 1.0%
l	Ø100 PVC @ MIN 1.0%
l	Ø150 PVC @ MIN 1.0%
l	Ø225 PVC @ MIN 0.5%
l	Ø300 PVC @ MIN 0.4%
l	UNLESS NOTED OTHERWIS

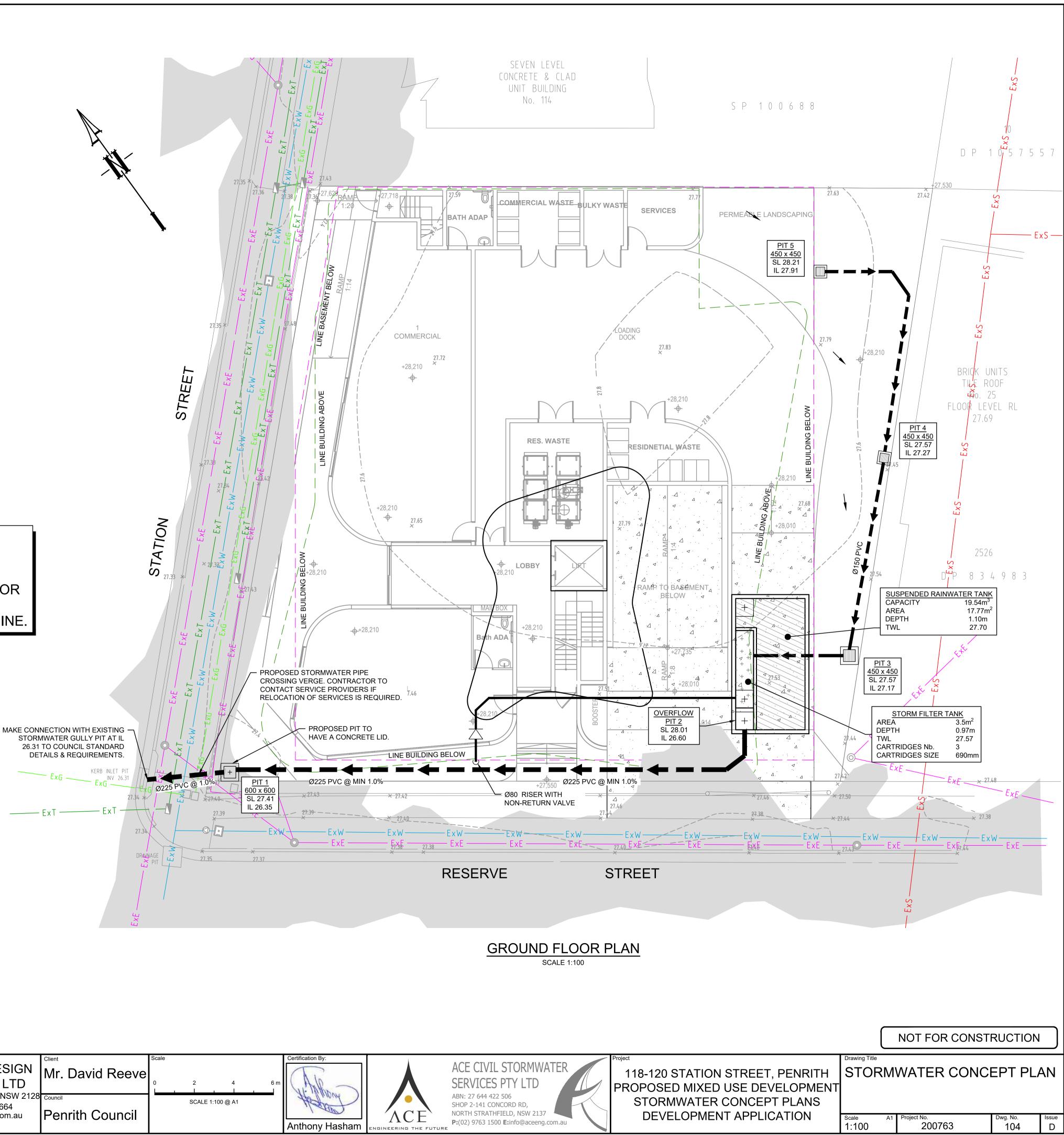
ROOF NOTE:

IT IS CONTRACTOR'S RESPONSIBILITY TO ENSURE MINIMUM 30 TO 40MM OF PONDING IS ACHIEVED OVER THE RAINWATER OUTLETS BY GRADING CATCHMENTS' SURFACES AT MINIMUM 0.5% FALL FOR PAVED SURFACES AND MINIMUM 1% FALL FOR OTHER SURFACES.

ROOF NOTE:

ALL ROOF DRAINAGE SYSTEM TO BE CONNECTED TO WSUD, & IS SUBJECT TO DETAILED DESIGN STAGE. ALL DOWNPIPES TO BE Ø100mm DIAMETER TO CATER FOR THE 1 in 100yr ARI & ALL GUTTERS TO BE CONSTRUCTED ACCORDINGLY.

						Architect	Clier
D	ISSUE FOR DEVELOPMENT APPLICATION	10/09/2021	DBF	OC	OC	ARCHITECTURE DESIGN	lм
С	COUNCIL COMMENTS	18/03/2021	AGN	JSF		STUDIO (NSW) PTY LTD	
В	ARCHITECTURAL AMENDMENTS	20/11/2020	EHZ	JSF		11 Egerton Street, Silverwater, NSW 2128	Cou
А	ISSUE FOR DEVELOPMENT APPLICATION	11/09/2020	EHZ	JSF		P: 02 9648 6663 / F: 02 9648 6664	
Issue	Description	Date	Designed	Engineer	Checked	info@ad-s.con.au / www.ad-s.com.au	Pe
-1 0	10cm			_	20cm	abn: 90 616 216 196	



Client	Scale	Certification By:			Project
Mr. David Reeve		The		ACE CIVIL STORMWATER	118-1
	0 2 4 6m	with the		SERVICES PTY LTD	PROP
Council	SCALE 1:100 @ A1	Hermony		ABN: 27 644 422 506 SHOP 2-141 CONCORD RD,	ST
Penrith Council		100	ΛCF	NORTH STRATHFIELD, NSW 2137	
		Anthony Hasham	ENGINEERING THE FUTURE	P:(02) 9763 1500 E:info@aceeng.com.au	JI –

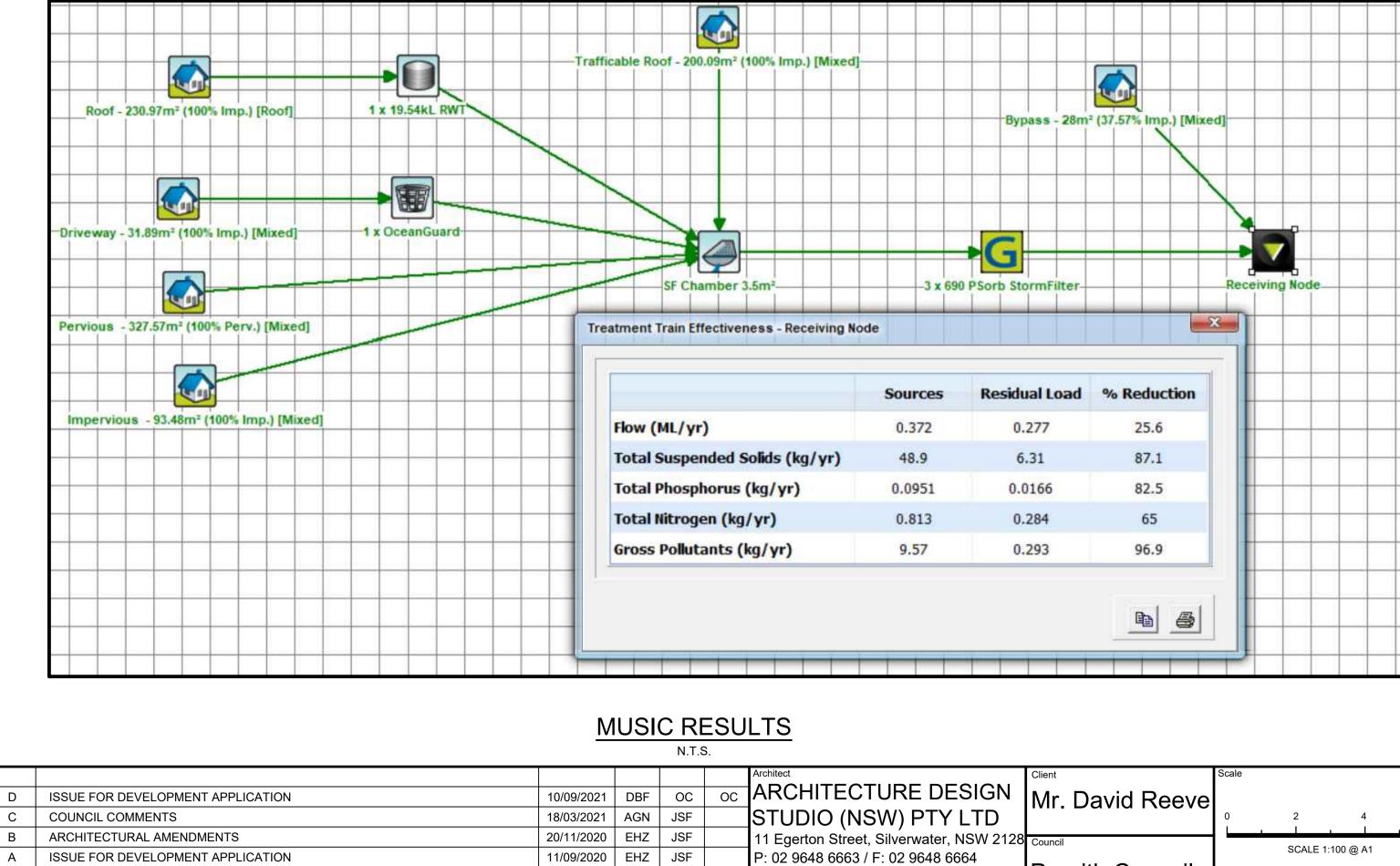
	Flow (ML/yr)	TSS (kg/yr)	TP (kg/yr)	TN (kg/yr)	GP (kg/yr)
Flow In	0.14	3.55	0.02	0.30	3.81
ET Loss	0.00	0.00	0.00	0.00	0.00
Infiltration Loss	0.00	0.00	0.00	0.00	0.00
Low Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
High Flow Bypass Out	0.00	0.00	0.00	0.00	0.00
Pipe Out	0.04	0.58	0.01	0.07	0.00
Weir Out	0.00	0.00	0.00	0.00	0.00
Transfer Function Out	0.00	0.00	0.00	0.00	0.00
Reuse Supplied	0.10	1.16	0.01	0.14	0.00
Reuse Requested	0.12	0.00	0.00	0.00	0.00
% Reuse Demand Met	80.72	0.00	0.00	0.00	0.00
% Load Reduction	69.97	83.72	73.62	75.84	100.00

NODE WATER BALANCE FOR RAINWATER TANK N.T.S.

RWT RE-USE CALCULATIONS:

AREA TO BE IRRIGATED = $114.73m^2$ YEARLY RE-USE DEMAND = $0.4 \text{ KL/Yr/m}^2 \times 114.73 \text{ m}^2$ = 46 KL/Yr

DAILY RE-USE DEMAND: RAINWATER RE-USE FOR TOILET FLUSHING OF 2 ON-SITE TOILETS = 2x0.1 KL/Day/Toilet = 0.2KL/Day



Date Designed Engineer Checked

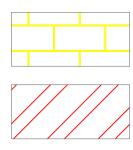
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abn: 90 616 216 196

Document Set ID: 9751597 Version: 1, Version Date: 29/09/2021

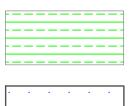
Issue Description

CATCHMENT LEGEND



TRAFFICABLE ROOF TO $WSUD = 200.09m^{2}$

NON-TRAFFICABLE ROOF TO RWT THEN TO WSUD =230.97m²

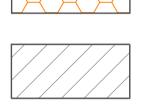


. . .

DRIVEWAY TO OCEANGUARD THEN TO WSUD = $31.89m^2$

PERVIOUS AREA TO WSUD = 327.57m²

IMPERVIOUS AREA TO WSUD = 93.48m²



AREA BYPASSING = 28m² (30.57% IMPERVIOUS)

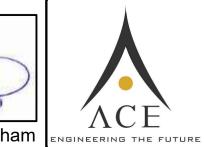
100yr ARI FLOODING NOT INLUDED IN WSUD CALCULATION

TOTAL AREA INCLUDED IN CALCULATIONS = 912.0m² TOTAL AREA DRAINING TO WSUD = 884.0m² TOTAL SITE AREA = 935.3m²



Mr. David Reeve	0	2	4	6 m	(Alles-
^{Council} Penrith Council		SCALE 1:1	00 @ A1		Heren
					Anthony Hash

Certification By

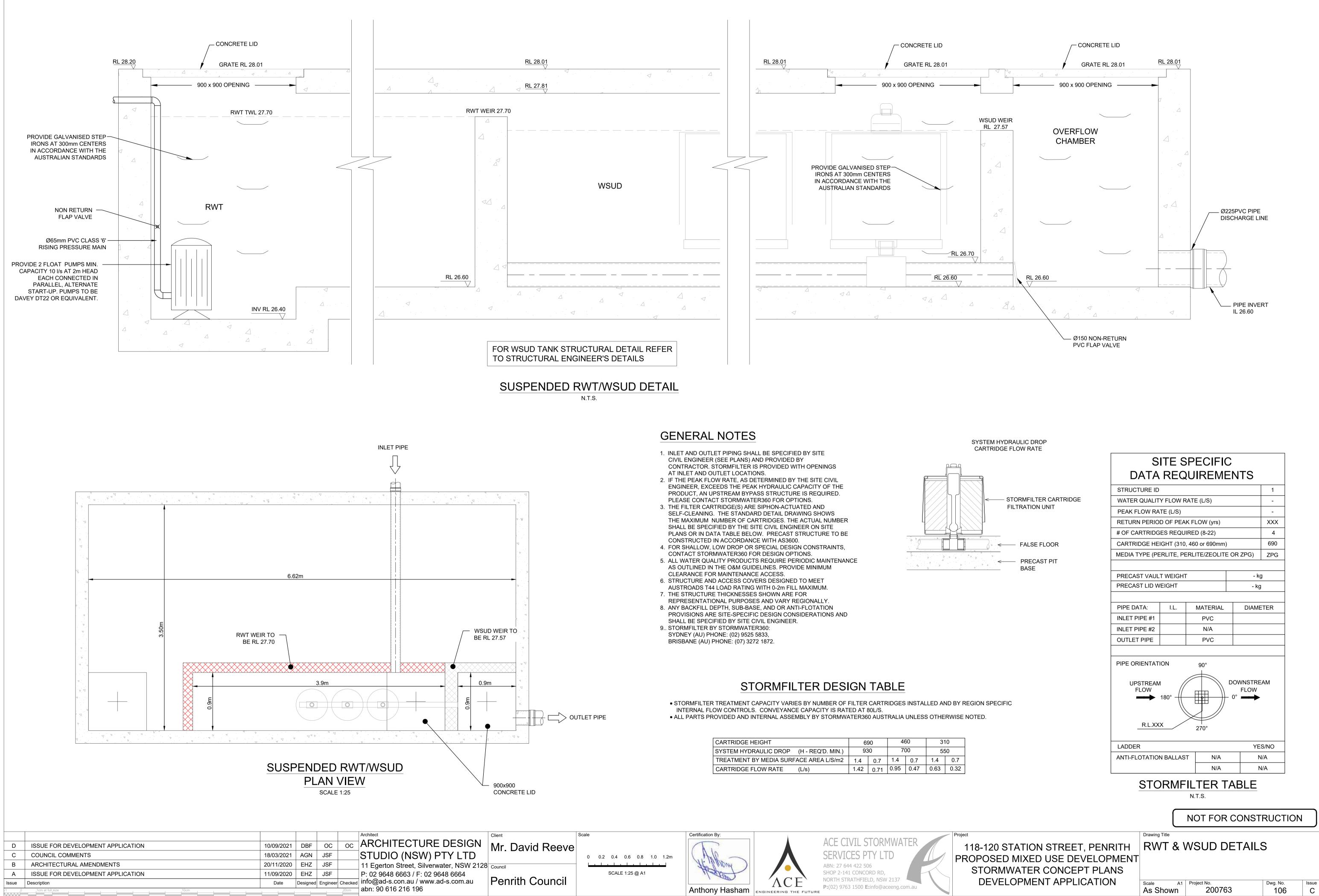


ACE CIVIL STORMWATER SERVICES PTY LTD ABN: 27 644 422 506 SHOP 2-141 CONCORD RD, NORTH STRATHFIELD, NSW 2137 P:(02) 9763 1500 E:info@aceeng.com.au



118-120 STA PROPOSED N STORMWA DEVELO

	Drawing Title			
ATION STREET, PENRITH MIXED USE DEVELOPMENT	WSUD C MUSIC N	ATCHMENT P MODEL, RESUL	LAN, _TS &	
ATER CONCEPT PLANS	NODE W	ATER BALANC	CE	
OPMENT APPLICATION	Scale A1 1:100	Project No. 200763	Dwg. No. 104	lssue D



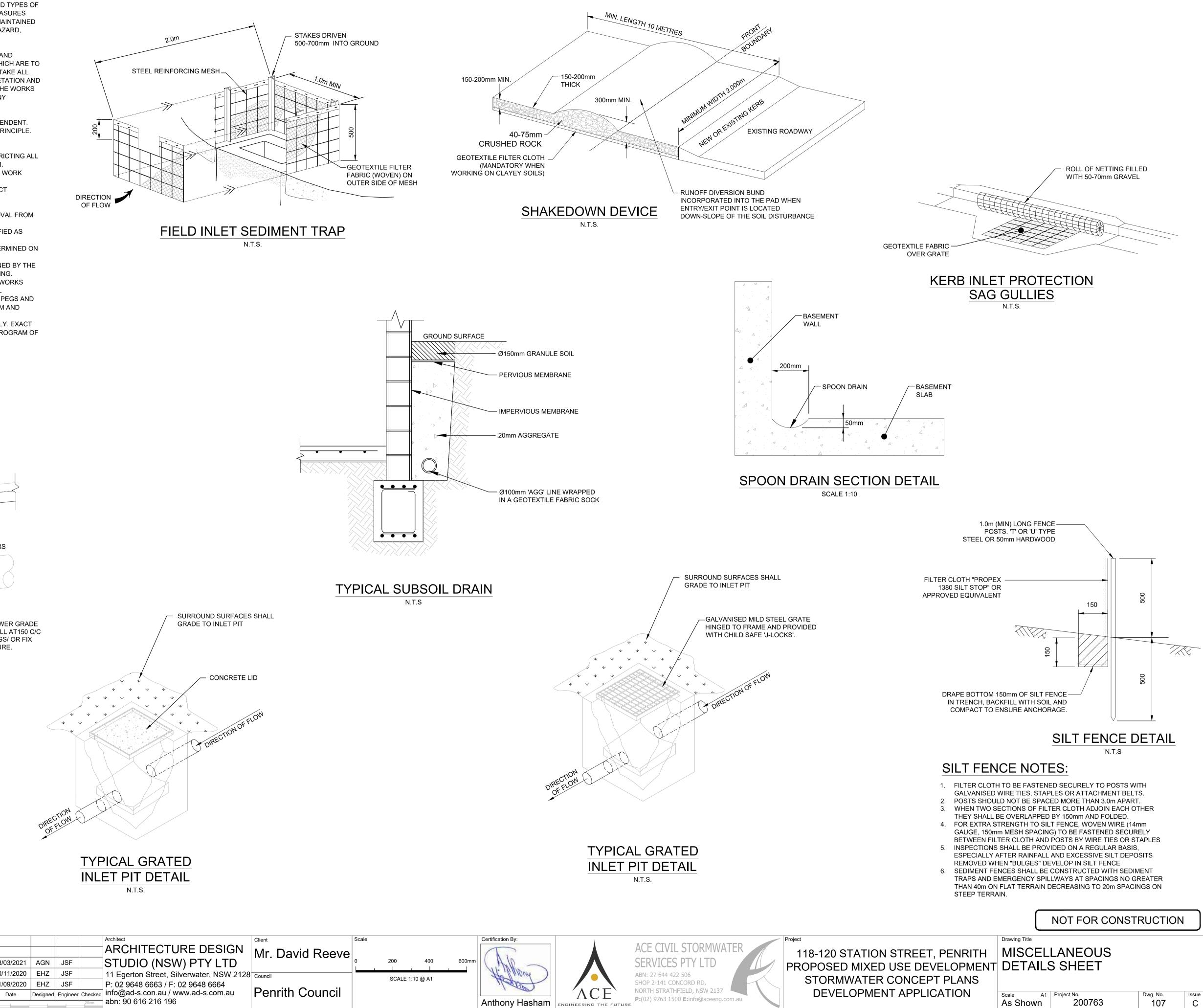
CARTRIDGE HEIGHT		690		460		10
SYSTEM HYDRAULIC DROP (H - REQ'D. MIN.)	930		700		550	
TREATMENT BY MEDIA SURFACE AREA L/S/m2		0.7	1.4	0.7	1.4	0.7
CARTRIDGE FLOW RATE (L/s)	1.42	0.71	0.95	0.47	0.63	0.32

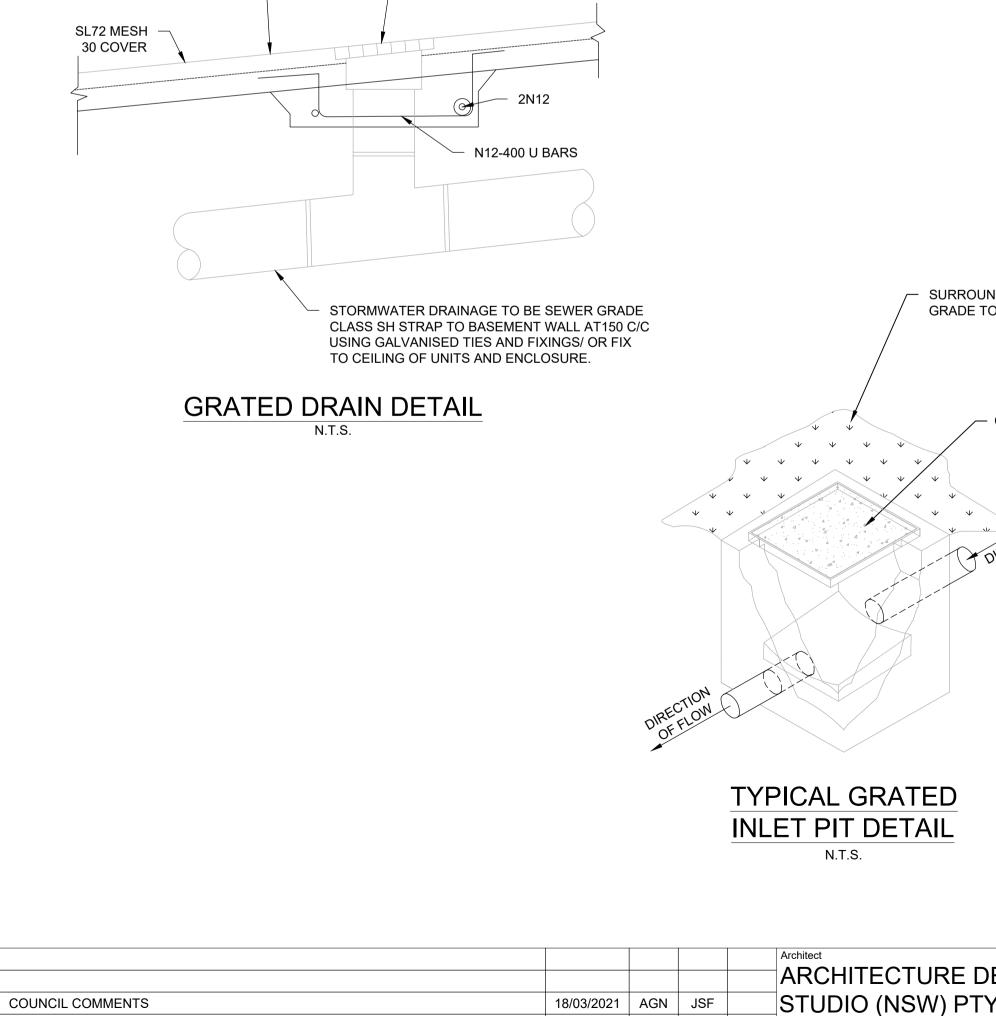
SEDIMENT & EROSION NOTES

- 1. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO NOMINATE THE LOCATIONS AND TYPES OF SEDIMENT AND EROSION CONTROL MEASURES TO BE ADOPTED. THESE MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CLEARING OR EARTHWORKS AND MAINTAINED UNTIL THE WORKS ARE COMPLETED AND NO LONGER POSE AN EROSION HAZARD, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- 2. IMMEDIATELY FOLLOWING SETTING OUT OF THE WORKS, BUT PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORKS, THE CONTRACTOR AND SUPERINTENDENT SHALL WALK THE SITE TO IDENTIFY AND MARK TREES WHICH ARE TO BE PRESERVED. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO MINIMISE DISTURBANCE TO EXISTING VEGETATION AND GROUND COVER OUTSIDE THE MINIMUM AREAS REQUIRED TO COMPLETE THE WORKS AND SHALL BE RESPONSIBLE FOR RECTIFICATION, AT ITS OWN COST, OF ANY DISTURBANCE BEYOND THOSE AREAS.
- PROVIDE GULLY GRATE INLET SEDIMENT TRAPS AT ALL GULLY PITS.
- 4. PROVIDE SILT FENCING ALONG PROPERTY LINE AS DIRECTED BY SUPERINTENDENT. ADDITIONAL CONTROL DEVICES TO BE PLACED WHERE DIRECTED BY THE PRINCIPLE.
- 6. ALTERNATIVE DESIGNS TO BE APPROVED BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
- 7. WASH DOWN/RUMBLE AREA TO BE CONSTRUCTED WITH PROVISIONS RESTRICTING ALL

CONSTRUCT DRIVEWAY TO DESIGN GRADES

- SILT AND TRAFFICKED DEBRIS FROM ENTERING THE STORMWATER SYSTEM 8. NO WORK OR STOCKPILING OF MATERIALS TO BE PLACED OUTSIDE OF SITE WORK BOUNDARY.
- 9. APPROPRIATE EROSION AND SEDIMENT CONTROLS TO BE USED TO PROTECT STOCKPILES AND MAINTAINED THROUGH OUT CONSTRUCTION.
- 10. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE DUE CARE OF NATURAL VEGETATION. NO CLEARING IS TO BE UNDERTAKEN WITHOUT PRIOR APPROVAL FROM THE SUPERINTENDENT.
- 11. TO AVOID DISTURBANCE TO EXISTING TREES, EARTHWORKS WILL BE MODIFIED AS DIRECTED ON-SITE BY THE SUPERINTENDENT.
- 12. THE LOCATION OF EROSION AND SEDIMENTATION CONTROLS WILL BE DETERMINED ON SITE BY THE SUPERINTENDENT.
- 13. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING. 14. ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS
- COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE COORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.
- 15. PLANS ARE MINIMUM REQUIREMENTS AND ARE TO BE USED AS A GUIDE ONLY. EXACT MEASURES USED SHALL BE DETERMINED ON SITE IN CONJUNCTION WITH PROGRAM OF CONTRACTORS WORKS etc.





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VARIABLE WIDTH GRATED DRAIN

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Issue Description

ARCHITECTURAL AMENDMENTS

ISSUE FOR DEVELOPMENT APPLICATION

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